

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/849,574	05/04/2001	Hyun-Jung Lee	678-627 (P9659)	9697
7590 02/12/2004			EXAMINER	
Paul J. Farrell DILWORTH & BARRESE, LLP 333 Earle Ovington Blvd. Uniondale, NY 11553			HOOSAIN, ALLAN	
			ART UNIT	PAPER NUMBER
			2645	
			DATE MAILED: 02/12/2004	. 5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/849,574	LEE, HYUN-JUNG
Office Action Summary	Examiner	Art Unit
	Allan Hoosain	2645
The MAILING DATE of this communicati Period for Reply	on appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica - If the period for reply specified above is less than thirty (30) day - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, b - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b). Status	TION. CFR 1.136(a). In no event, however, may a rition. s, a reply within the statutory minimum of third period will apply and will expire SIX (6) MON y statute, cause the application to become AE	eply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed or	n <u>04 May 2001</u> .	
2a) ☐ This action is FINAL . 2b) ⊠	This action is non-final.	
3) Since this application is in condition for a closed in accordance with the practice u		
Disposition of Claims		
4) ☐ Claim(s) 1-7 is/are pending in the application 4a) Of the above claim(s) is/are w 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction	ithdrawn from consideration.	
Application Papers		
9) ☐ The specification is objected to by the Ex 10) ☑ The drawing(s) filed on 04 May 2001 is/a Applicant may not request that any objection Replacement drawing sheet(s) including the 11) ☐ The oath or declaration is objected to by	re: a)⊠ accepted or b)□ object to the drawing(s) be held in abeyar correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. §§ 119 and 120		
a) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority doce 2. Certified copies of the priority doce 3. Copies of the certified copies of the application from the International I * See the attached detailed Office action for 13) Acknowledgment is made of a claim for doce since a specific reference was included in 37 CFR 1.78. a) ☐ The translation of the foreign languary 14) Acknowledgment is made of a claim for doce reference was included in the first sentence.	uments have been received. uments have been received in A ne priority documents have been Bureau (PCT Rule 17.2(a)). It a list of the certified copies not comestic priority under 35 U.S.C. Ithe first sentence of the specific ge provisional application has be comestic priority under 35 U.S.C.	received in this National Stage received. § 119(e) (to a provisional application) ation or in an Application Data Sheet. een received. §§ 120 and/or 121 since a specific
Attachment(s)	·	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-9 3) Information Disclosure Statement(s) (PTO-1449) Paper	48) 5) Notice of Ir	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)

Art Unit: 2645

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by **Bharatia** (US 6,138,007).

As to Claim 1, with respect to Figures 1-3, **Bharatia** teaches a homezone call forwarding service rnethod comprising the steps of:

- (1) sending, by an origination mobile switching center (MSC), 18, location request invoke message to a home location register (HLR), 54, of a terminating subscriber in order to acquire location information of the terminating subscriber, when an originating subscriber, 34, calls the terminating subscriber, 66, (Figure 1 and Col. 4, lines 2-8);
- (2) analyzing, by the HLR, number information included in the received location request invoke message to determine whether the number is a number for a homezone or a number for a non-homezone, and sending a routing information request invoke message to a terminating MSC, in order to acquire routing information, said routing information request invoke message including a parameter for inserting number identification information and a termination trigger

Art Unit: 2645

parameter for defining a termination trigger point presently activated for the subscriber (Col. 4, lines 28-39);

- (3) upon receipt of the routing information request invoke message, assigning, by the terminating MSC, a temporary local directory number (TLDN) for routing, registering a parameter having the number identification information and the termination trigger parameter in a visitor location register (VLR), and sending a routing information request result message having a routing information parameter to the HLR of the terminating subscriber (Col. 4, lines 8-10 and 40-47);
- (4) upon receipt of the routing information request result message, sending a location request result message to the originating MSC by the HLR of the terminating subscriber;
- (5) detecting, by the originating MSC, a local directory number (LDN) included in the location request result message, routing the detected local directory number to the terminating MSC, and performing a call setup process (Col. 4, lines 48-55);
- (6) after call setup, determining by the terminating MSC whether to redirect a present call, by consulting the termination trigger parameter and a calling feature directive parameter registered in the VLR in a termination-inactivated state (Col. 4, lines 56-64);
- (7) sending, by the terminating MSC, a redirecting request invoke message to the originating MSC, when it is determined to redirect the present call (Col. 5, lines 5-18);
- (8) upon receipt of the redirecting request invoke message from the terminating MSC, sending, by the originating MSC, a transfer number request invoke message to the HLR of the terminating subscriber in order to determine a call forwarding number (Col. 5, lines 19-25); and

Art Unit: 2645

(9) analyzing, by the HLR of the terminating subscriber, the transfer number request invoke message to determine to which phone number the present call should be redirected, searching for a call forwarding number of the terminating subscriber for a call forwarding service, inserting the searched call forwarding number in the transfer number request result message, and then sending the transfer number request result message to the originating MSC (Col. 5, lines 26-33).

As to Claim 2, **Bharatia** teaches the homezone call forwarding service method as claimed in claim 1, wherein, the originating MSC detects the call forwarding number from the transfer number request result message and restarts a termination process (Col. 5, lines 19-25).

As to Claim 3, **Bharatia** teaches the homezone call forwarding service method as claimed in claim 1, wherein, the termination trigger parameter is a parameter for defining a termination trigger point presently activated for the terminating subscriber (Col. 5, lines 5-13).

As to Claim 4, **Bharatia** teaches the homezone call forwarding service method as claimed in claim 1, wherein the termination-inactivated state is one of a busy state, a no-answer state and a no-page response state (Col. 4, lines 48-55).

As to Claim 5, **Bharatia** teaches the homezone call forwarding service method as claimed in claim 1, wherein, the parameter for inserting number identification information is an operational contact (a leg information parameter) (Col. 4, lines 33-38).

Art Unit: 2645

As to Claim 6, **Bharatia** teaches the homezone call forwarding service method as claimed in claim 5, wherein the redirecting request invoke message includes a resume call handling (redirecting reason parameter) and a forward to mobile station (leg information parameter) (Col. 5, lines 23-33).

As to Claim 7, **Bharatia** teaches the homezone call forwarding service method as claimed in claim 5, wherein the transfer number request invoke message includes the leg information parameter and the termination trigger parameter (Col. 5, lines 19-33).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Alperovich et al. (US 5,978,673) teach location based call forwarding in a mobile network.

Lantto (US 5,867,784) teaches improving speech quality when call forwarding between networks.

4. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, D.C. 20231 or faxed to:

(703) 872-9314, (for formal communications intended for entry)

Or:

(703) 306-0377 (for customer service assistance)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington. VA., Sixth Floor (Receptionist).

Page 6

Application/Control Number: 09/849,574

Art Unit: 2645

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allan Hoosain whose telephone number is (703) 305-4012. The examiner can normally be reached on Monday to Friday from 8 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang, can be reached on (703) 305-4895.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Primary Examiner

1/26/04